

Amendment and Response

Applicant: Von L. Hansen

Serial No.: 09/995,777

Filed: November 29, 2001

Docket No.: 10004290-1 (H302.150.101)

Title: SECURE PRINTING SYSTEM AND METHOD

BEST AVAILABLE COPY**IN THE CLAIMS**

Please cancel claim 10.

Please amend claims 1, 4-6, 8-11, 16, 19, 21-26, 28-30 and 33 as follows:

1. (Currently Amended) A method of printing comprising:
posting, via a computer workstation, a document on a server from a computer workstation as a print job and identifying, via the computer workstation, for an identified a first printer for printing the print job; and
identifying for association with the print job transmitting, via from the computer workstation, a first security key separate from the document and that uniquely identifies the document, the first security key configured to enable activation of an identified the first printer via a mobile computing device to execute the print job for printing the document;
delaying preventing printing of the print job at the first identified printer until:
a later time when the mobile computing device is located within a wireless transmission range of the identified first printer to confirm the presence of the mobile computing device adjacent the identified first printer; and
the later time when the mobile computing device wirelessly transmits to the identified first printer printing instructions and the first security key to enable activation of the identified first printer to execute the print job to print the document;
and
printing the print job, including the activated, first printer obtaining the print job directly from the server.
- 2-3 (Canceled).
4. (Currently Amended) The method of claim 3~~1~~, wherein posting a document comprises:
providing the first printer as commercial printer wherein the server defines a portion of a commercial printing web site.
5. (Currently Amended) The method of claim 3~~1~~ wherein posting a document comprises

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specifying a location of the first-identified printer, apart from a plurality of other printers, at which the document will be printed.

6. (Currently Amended) The method of claim 1, wherein wirelessly transmitting a the first security key in ~~preventing~~delaying printing of the print job comprises:

transmitting the first security key from the mobile computing device by at least one of the following wireless communication protocols: infrared; Bluetooth; and WAP.

7. (Canceled)

8. (Currently Amended) The method of claim 1, wherein ~~preventing~~delaying printing of the print job comprises:

using a Java applet for wirelessly transmitting the printing instructions to print the print job and the security key; and

receiving and operating the Java applet, to execute the print job, with a Java virtual machine of the first-identified printer.

9-10. (Canceled)

11. (Currently Amended) A method of printing comprising:

directing, via a computer workstation, printing of a print job at a first printer via electronically authorizing in association with an electronic security key, without a physical security key, posting of the print job on a server for printing at the a first printer;

selectively delaying printing of the print job until the first printer receives printing instructions and an the electronic security key via an authorized wireless transmission from a mobile computing device to complete authorization of -authorize printing of the print job by the first printer according to the printing instructions; and

enabling printing of the print job with the authorized wireless transmission based on at least one of a distance from a source of the wireless transmission from the mobile computing device to the first printer, a time delay factor associated with the first printer, and a type of wireless transmission; and

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printing the authorized print job, including the first printer directly acquiring the print job from the server.

12 -13. (Canceled)

14. (Previously Presented) The method of claim 11 wherein posting a document comprises:

identifying via the mobile computing device the first printer as uniquely from among a plurality of printers within a computing network; and

wherein selectively delaying printing of the print job comprises delaying printing until a presence of the mobile computing device is automatically detected via the first printer when the mobile computing device enters a wireless communication range with the first printer.

15. (Canceled)

16. (Currently Amended) A method of printing comprising:

~~The method of claim 1 wherein posting a document comprises:~~

providing the document as a posting, via a computer workstation, a passenger ticket service document, associated with a pre-identified consumer travel service, on the server at a consumer travel service facility as a print job;

identifying, via the computer workstation, a first printer for printing the print job;

identifying for association with the print job, via the computer workstation, a first security key separate from the passenger travel service document and that uniquely identifies the passenger travel service document of the print job, the first security key configured to enable activation of the first printer via a mobile computing device to execute the print job for printing the passenger travel service document; and

preventing printing of the print job at the first printer until:

a later time when the mobile computing device is located within a wireless transmission range of the first printer to confirm the presence of the mobile computing device adjacent the first printer; and

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the later time when the mobile computing device wirelessly transmits to the identified printer printing instructions and the first security key to enable activation of the first printer to execute the print job to print the document;

wherein the printing instructions include a request for the pre-identified consumer travel service and for printing of the passenger ticket service document; and delivering the pre-identified travel service to the consumer via printing the print job, via the first printer directly obtaining the print job from the server, at the first printer to produce the passenger ticket service document on the printer at the consumer travel service facility.

17. (Previously Presented) The method of claim 16 wherein providing the document comprises:

producing the passenger travel service document as an airline passenger ticket.

18. (Previously Presented) The method of claim 17 wherein producing the passenger travel service document comprises:

providing the passenger travel service document to include printed news and entertainment information that is personal to the consumer.

19. (Currently Amended) The method of claim 11 and further comprising:

selectively contracting with a public printing service to print the document as the print job with the first printer being a publicly accessible printer in a public venue.

20. (Original) The method of claim 19, further comprising:

specifying the server to include at least one of a private server and a server of the public printing service.

21. (Currently Amended) The printer system of claim 25 comprising a printing system comprising:

a mobile computing device for holding the security key and printing instructions and having a wireless communication module for activating the printer to print the document as the print job when the mobile computing device is within a select proximity of the printer.

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22. (Canceled)

23. (Currently Amended) The ~~printing printer~~ system of claim 24 wherein the server comprises a network printing manager menu comprising:

- a document identification field;
- a document upload function;
- a printer location function configured to identify a location of the printer; and
- a security key field for identifying and activating the security key to selectively control printing of the document.

24. (Currently Amended) The printer system of claim 25 wherein the printer system and further comprising a printing system comprising a server for holding the document as the print job for printing at the printer.

25. (Currently Amended) A printer system comprising:

a printer including:

a printing mechanism for printing a document as a print job and including a memory configured to store the print job for later execution by the printing mechanism;

a device independent program language reader;

a wireless communication module configured to receive a wireless transmission securely requesting printing ~~a document~~ the print job at-on the printer wherein the wireless transmission includes a security key associated with the document of the print job and printing instructions with both of the security key and the printing instructions provided in the wireless transmission in device independent programming language to be implemented by the device independent program language reader, wherein the security key is separate from the document and the wireless communication module is configured to receive the wireless transmission of the security key at a point in time after the print job is stored at the printer ~~via the printing mechanism; and~~

a mobile computing device comprising:

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a controller; and

a wireless communication module configured for activating the printer to print the print job via a wireless transmission that sends printing instructions and the security key to the printer, the security key configured to enable the printer to print the print job stored in the memory of the printer, the wireless communication module including an automatic identification module to identify to the printer, based on a presence of the mobile computing device within a wireless communication range with the printer, that an individual associated with the mobile computing device is adjacent the printer to retrieve the printed document from the printer..

26. (Currently Amended) The printer system of claim 25, wherein the device independent program language reader comprises a Java virtual machine and the device independent programming language comprises Java programming language, and wherein the Java virtual machine comprises the printing instructions and the security key.

27. (Canceled)

28. (Currently Amended) The mobile computing device of claim ~~27~~ 25 wherein the communication module further comprises:

an authorization module configured for recognizing the printer and configured for permitting printing of the document based on at least one of a distance of the mobile computing device relative to the printer, a time factor associated with the printer, and a type of wireless transmission associated with the printer.

29. (Currently Amended) A computer-readable medium having computer-executable instructions for performing a method of printing, the method comprising:

posting, via a computer workstation, a document on a server from a computer workstation as a print job and identifying, via the computer workstation, for an identified a first printer for printing the print job; and

identifying for association with the print job transmitting, via from the computer workstation, a first security key separate from the document and that uniquely identifies the document, the

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first security key configured to enable activation of ~~an identified~~ the first printer via a mobile computing device to execute the print job for printing the document;

~~delaying~~preventing printing of the print job at the ~~first identified~~ first printer until:

a later time when the mobile computing device is located within a wireless transmission range of the ~~identified first~~ first printer to confirm the presence of the mobile computing device adjacent the ~~identified first~~ first printer; and

the later time when the mobile computing device wirelessly transmits to the ~~identified first~~ first printer ~~printing instructions and~~ the first security key to enable activation of the ~~identified first~~ first printer to execute the print job to print the document; and

printing the print job, including the activated, identified printer obtaining the print job directly from the server.

30. (Currently Amended) The medium of claim 29 and further comprising:

determining whether the mobile computing device is authorized to enable execution of the print job at the ~~first identified~~ first printer based on at least one of a select proximity between a source of the wireless transmission and the ~~first identified~~ first printer, a time factor associated with the ~~first identified~~ first printer, and a type of the wireless transmission between the mobile computing device and the ~~first identified~~ first printer.

31-32. (Canceled)

33. (Currently Amended) The medium of claim 29, wherein preventing printing of the print job comprises:

using a Java applet to send the printing instructions and the second security key from the mobile computing device to the ~~first identified~~ first printer.

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